

Iten Industries

Resiten® LE Performance Values

<u>Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>	<u>Values</u>	<u>Values</u>	
Thickness			.062 inches	.125 inches	.500 inches	
Tensile Strength:	Lengthwise	D638	14,100 psi	15,300 psi		
			Crosswise	10,400 psi	11,700 psi	
Flexural Strength:	Condition A	D790	Lengthwise	23,000 psi	19,700 psi	20,800 psi
	Condition A		Crosswise	17,100 psi	15,400 psi	17,000 psi
	D48/50	Lengthwise	26,500 psi	21,400 psi		
		Crosswise	20,400 psi	13,500 psi		
Compressive Strength:	Lengthwise	D695	8,400 psi	23,400 psi	30,000 psi	
			Crosswise	7,200 psi	22,600 psi	32,400 psi
			Flatwise		> 45,000 psi	> 45,000 psi
Izod Impact (notched):	Condition A	D256	Lengthwise	1.3 ft.lb./in.	1.2 ft.lb./in.	1.3 ft.lb./in.
	Condition A		Crosswise	0.9 ft.lb./in.	0.8 ft.lb./in.	0.8 ft.lb./in.
	D48/50	Lengthwise	1.3 ft.lb./in.	1.2 ft.lb./in.	1.3 ft.lb./in.	
		Crosswise	0.7 ft.lb./in.	0.8 ft.lb./in.	.8 ft.lb./in.	
	E48/50	Lengthwise	1.3 ft.lb./in.	1.4 ft.lb./in.	1.3 ft.lb./in.	
		Crosswise	0.7 ft.lb./in.	0.8 ft.lb./in.	0.8 ft.lb./in.	
Bond Strength	Condition A	D229			1,620 pounds	
	D48/50				1,910 pounds	
Water Absorption		D570	1.40% of weight	.47% of weight	.31% of weight	
Specific Gravity		D792	1.34	1.34	1.32	
U.L. Subject 94		UL94	HB	HB	V-O	
Dielectric Strength		D149	318 Vpm	279 Vpm		
Dielectric Breakdown:	Condition A	D149	>80 kV	>80 kV	75 kV	
	D48/50		39 kV	68 Kv	66 kV	
Arc Resistance:	Condition A	D495	131 seconds	139 seconds	135 seconds	
	D48/50		107 seconds	132 seconds	139 seconds	
U.L HV Track Rate @ .057"		U.L. 746A	17.2 mm/Min.			
Permittivity, 1MHz:	Condition A	D150	5.06	4.85		
	D24/23		5.33	4.91		
Dissipation Factor, 1MHz:	Condition A	D150	.039	.034		
	D24/23		.043	.035		
Permittivity, 1KHz:	Condition A	D150	6.08	5.45		
	D24/23		6.85	5.56		
Dissipation Factor, 1KHz:	Condition A	D150	.080	.035		
	D24/23		.145	.037		
U.L. Hot Wire Ignition @ .057"		U.L. 746A	9.0 seconds			
U.L. High Amp Ignition @ .057"		U.L. 746A	6.0 Exposure			
Thermal Coefficient of Expansion			2.0 x 10E-5 cm/cm/ ° C			
U.L. temperature Index @ .057":	Electrical		115° C	115° C		
	Mechanical		125° C	125° C		

Resiten® LE meets NEMA specifications for LE, Mil-I-24768 type FBE, & GE A19B17A1 & A2

Standard Sheet sizes are 36" x 48" & 48" x 48"

Ashtabula, Ohio 44004 440-997-6134 Fax 440-992-3614

All values are average test results from typical production material. No warranty is implied or guaranteed and testing is recommended for each application.

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